Stainless steel conveyor system X180X, X180Y, X180C

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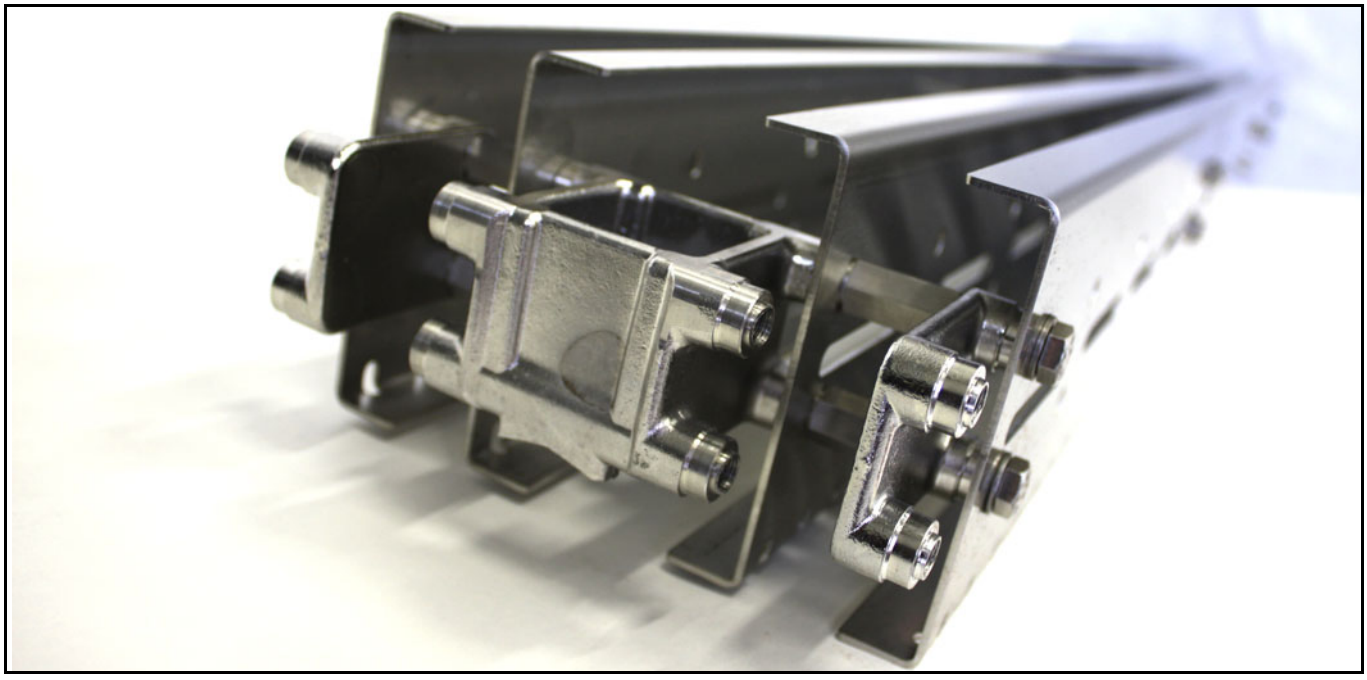
System information



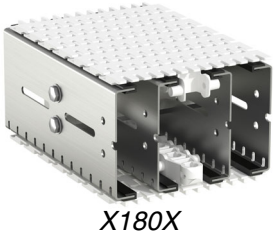
Conveyor with focus on robustness and cleanliness

X180X - Standard version: Designed to suit the requirements of food and packaging applications.

X180Y - Covered return chain version: Designed with self-drainage to avoid malfunction of the chain in case of machine spillage.

X180C - Wipe off version: Closed surface design with minimum holes or slots for easier cleaning and even bet-ter hygiene.

Chain width 175 mm



X180X

Environment

- Operating temperatures –20 °C to +60 °C
- Operating humidity 10% to 95% RH
- See chapter Technical reference for Noise level

Improved cleanliness conveyor

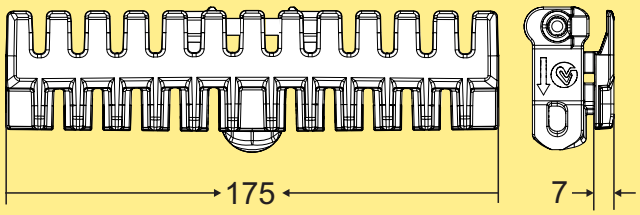
The X180X conveyor system has been evaluated based on field experience and suggestions from customers. With focus on structure rigidness and robustness, easy design, and easier cleaning, several components have been improved with features like better drainage and smaller contact surfaces.

Technical characteristics

Drive unit capacity	1250 N
Chain tension limit	1250 N
Beam width	180 mm
Chain width	175 mm
Chain pitch	33,5 mm
Item width	70–400 mm
Maximum item weight	15 kg
Maximum weight on conveyor	200 kg
Maximum conveyor length	30 m

Conveyor chain

Plain chain

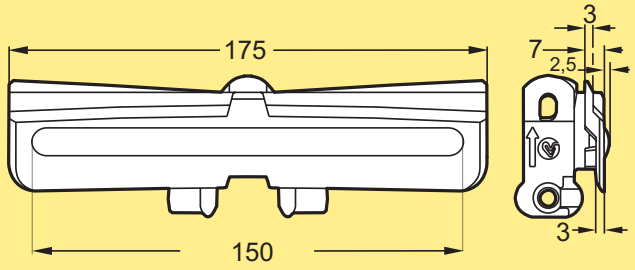


Plain chain
Length 3 m **XBTPX 3A180 K**

Plain link kit * **FLX1004629**

** Link kit contains 10 links, 10 pivots, 10 steel pins*

Friction top chain



Friction top chain
Length 3 m **XBTP 3A175 FP**

Use the online configurator to specify and order.

Friction top link kit * **5056653**

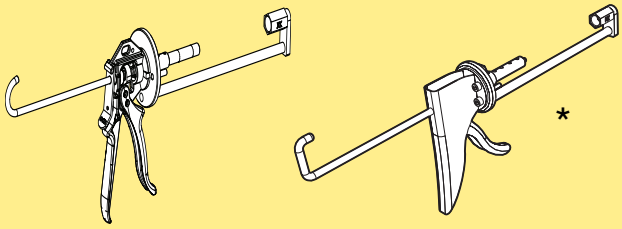
** Link kit contains 10 links, 10 pivots, 10 steel pins*

Other chains

See the Chain guide for selection of other chains.

Chain accessories

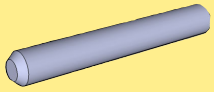
Pin insertion tool for chain



Pin insertion tool
X85-X180/X300
X85-X180/X300-XH, PRO version* **XMMJ 6**
XBMJ 6 P

**This tool is recommended for frequent users*

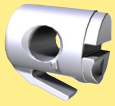
Stainless steel pin



Steel pin
Stainless steel **5111172**

Steel pin kit, 25 pc

Plastic pivot for chain



Plastic pivot kit **5111169**

Spare parts kit, contains 25 pcs.

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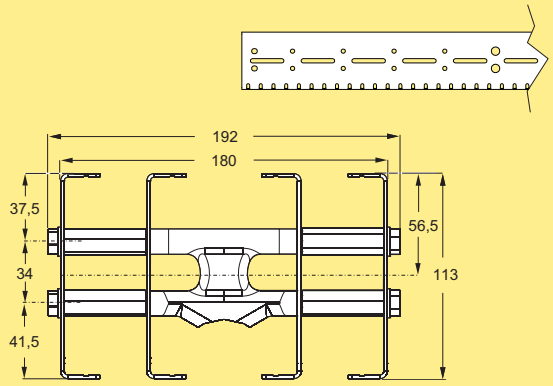
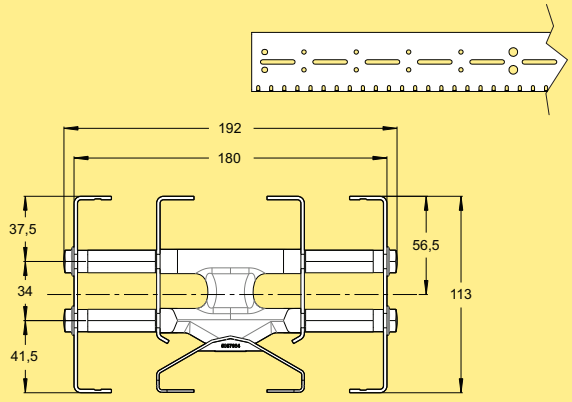
Conveyor beam, 180 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A180**
Length to order (150- 2999 mm) **XBCBX LA180**

All X180X beams are delivered fully assembled.

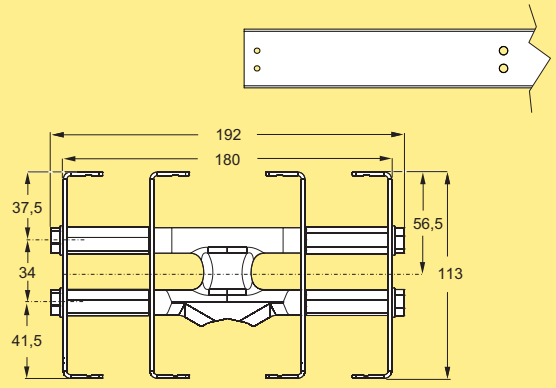
Conveyor beam type Y, 180 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A180Y**
Length to order (150- 2999 mm) **XBCBX LA180Y**

All X180Y beams are delivered fully assembled.
Screw Kit 5114562 included

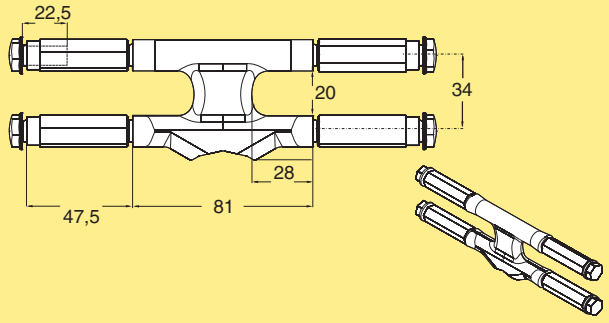
Conveyor beam type C, 180 mm



Conveyor Beam
Length 3 m (3000 ±1,5 mm) **XBCBX 3A180C**
Length to order (150- 2999 mm) **XBCBX LA180C**

All X180X beams are delivered fully assembled.

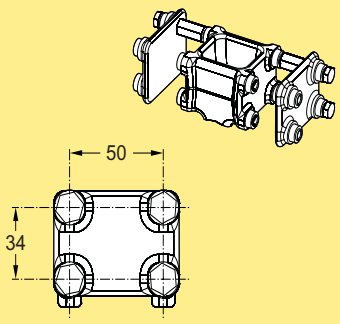
Beam spacer kit



Beam spacer kit
Stainless steel
Beam spacer kit for X180X **XBCEX A180**

Including screws.
The beams have predrilled 8 mm holes at 100 mm intervals that need to be increased to 10 mm.

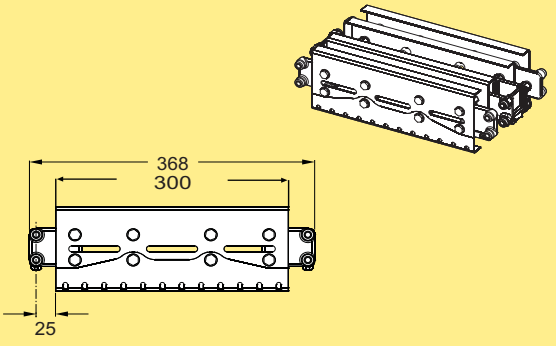
Connecting bracket kit



Connecting bracket kit
Stainless steel
Connecting bracket kit for X180X **XBCJX A180**

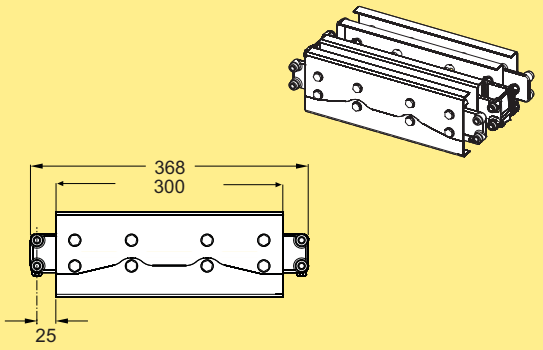
Including screws.
The beams have pre drilled 10 mm holes, see XBCBX 3A85

Beam section for chain installation



Beam section for chain installation. **XBCCX 300A180**
Including 2 Connecting bracket kit XBCJX A180 and mounting instruction

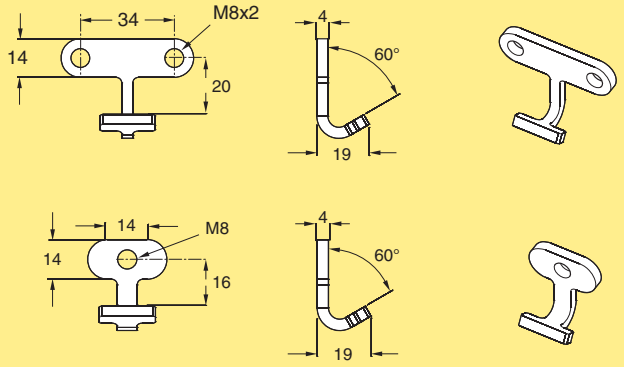
Beam section for chain installation

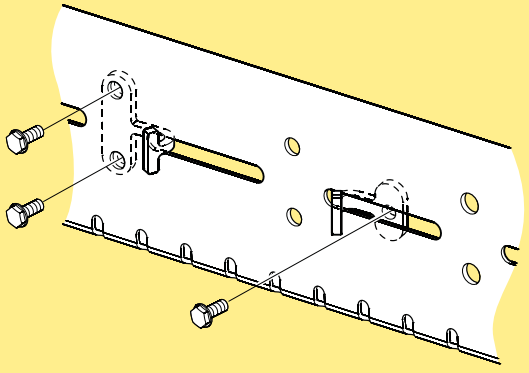


Beam section for chain installation.
Including 2 Connecting bracket kit XBCJX A180 and mounting instruction

XBCCX 300A180C

Nut, stainless steel





Nut M8x2 **5113998**
Nut M8x1 **5114181**

Nut with threaded hole (M8) for connection of sensors and other accessories when the conveyor chain is in place. By placing nuts inside the beam at the holes, accessories can be attached using M8 A4 screws. NOTE! Be careful when installing so no nut is dropped inside the beam, this can lead to a large additional work or operational damage.

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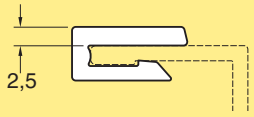
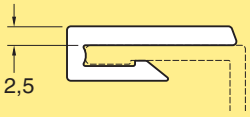
Plastic slide rails, narrow



Slide rail
Length 25 m

HDPE (Black)	**XBCR 25**
PE-UHMV (White)	**XBCR 25 U**
PE-UHMW (Blue)	**XBCR 25 UL A**
PVDF (Transparent white)	**XBCR 25 P**
PA-PE (Grey) (Should not be used in wet applications)	**XBCR 25 H**

Plastic slide rails, wide

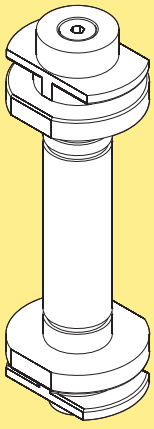


Slide rail
Length 25 m

HDPE (Black)	**XBCR 25 B**
PE-UHMV (White)	**XBCR 25 UB**
PVDF (Transparent white)	**XBCR 25 PB**
PA-PE (Grey) (Should not be used in wet applications)	**XBCR 25 HB**

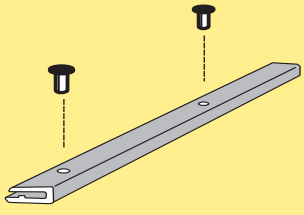
Note. The wide slide rails are not suitable for use in bends.

Mounting tool for slide rail



Mounting tool for slide rail **XBMR 170**

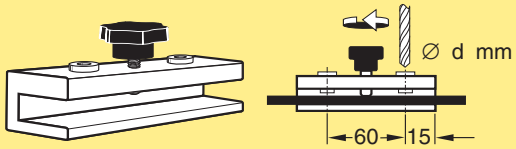
Stainless steel rivet



Stainless steel rivet, 4 mm **XLAHX 4×7**

Note. Contains 25 pcs.

Drill fixture for slide rail

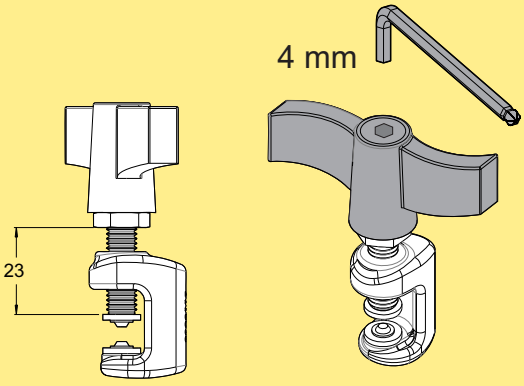


Drill fixture for slide rail
d=4,2 mm **3920500**

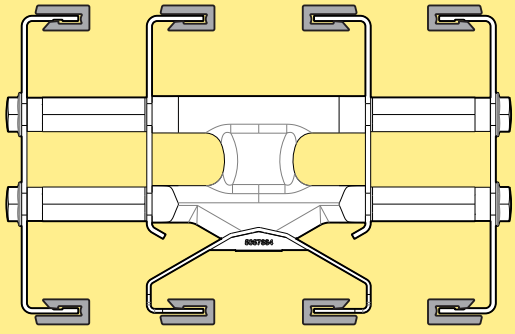
Rivet crimping pliers

Rivet crimping pliers
For 4 mm rivets **5051395**

Rivet crimping clamp

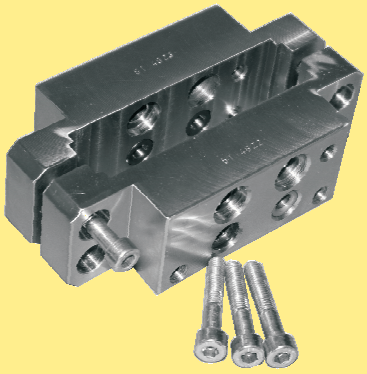


Rivet crimping clamp
For 4 mm rivets
(note: Allen key not included) **3923005**



Note. Always use 8 slide rails

Drill fixture



Drill fixture	**5114621**

For use when additional holes are needed on the beam sides.
Including:
Drill 4,5 mm
Drill 8,3 mm
Drill 11,0 mm
and instructions for use.

Drill

Twist Drills DIN 338 HSS-E (Co 8)
Type N-HD Cobalt Alloyed, Split Point

Drill 11,0 mm	**5115050**
Drill 10,2 mm	**5115056**
Drill 8,3 mm	**5115051**
Drill 4,5 mm	**5115052**
Drill 4,2 mm (for 3920500)	**5115053**

For high strength alloys on CrNi base such as Hastelloy, Inconel, Monel, Nimonic, stainless steels, head and acid-proof steels (up to 1400 N/mm² tensile strength).

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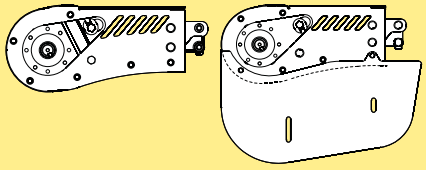
Drive unit types

The X180X system drive unit capacities is maximum 1250 N. The actual capacity depends on the speed.

Available motors include variable speed types (**V**) as well as fixed speed motors (**F**).

End drive units

Size	Direct drive, no slip clutch
	
Drive unit	F, V
Drive unit, guided	F, V

Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V, 60 Hz. Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 120 mm to the width of the motor.
IP55 available with standard oil.
IP65 available with food grade oil.

Idler unit types

Idler units are available in two versions, Compact and Standard.

Ordering information

Drive units with motors must be specified using the web-based configurator. The configurator provides detailed information and step-by-step guidance in the specification process. A product code string is generated, containing the specification details. See next page for examples of code strings.

Drive units *without* motors can be ordered using the designations in the catalogue.

Dimension

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration.

Drive units – configuration strings

Below, two examples of text strings obtained from the configurator with explanations are presented.

Drive unit with fixed speed motor

Item no	A		B		C		D		E		G		H		I
XBEBX A180	HNP	-	L	-	G	-	V4	-	SA37	-	50/230	-	0,18kW	-	TF

Drive unit with variable speed motor

Item no	A		B		D		E		F		G		J		K
XBEBX A180	HNPV	-	L	-	V6-15	-	SA37	-	MM03	-	50/380-500	-	C	-	P

Item no - Drive type

XBEBX: End drive

A – 0-Unit

HNP: Direct drive, no slip clutch
....V: Variable speed

B – Motor position

L: Left
R: Right

C – End drive with guided chain

G: Guided (position is omitted for non-guided)

D – Speed

V...: Fixed speed... m/min
V... -...: Variable speed range...-... m/min

E – Gearbox

SA37: SEW motor type SA37
WA30: SEW gear box type WA30

F – Movimot size

MM03: SEW Movimot type, 0,37 kW
MM05: SEW Movimot type, 0,55 kW
MM07: SEW Movimot type, 0,75 kW
MM11: SEW Movimot type, 1,1 kW
(position is omitted for fixed speed motors)

G – Electrical environment

50/230: 50 Hz, 230 V
50/400: 50 Hz, 400 V
60/230: 60 Hz, 230 V
60/460: 60 Hz, 460 V
50/380-500: SEW Movimot variable speed motor

H – Motor power

... kW: Motor power, kW
(position is omitted for variable speed motors see position F)

I – Thermal protection

No: No thermal protection
TF: Thermal protection type TF
TH: Thermal protection type TH
(position is omitted for variable speed motors)

J – Hybrid cable

No: No hybrid cable
C: Hybrid cable included in SEW Movimot
(position is omitted for fixed speed motors)

K – Fieldbus

No: No fieldbus
P: Profibus fieldbus, maintenance switch
D: DeviceNet fieldbus, maintenance switch
(position is omitted for fixed speed motors)

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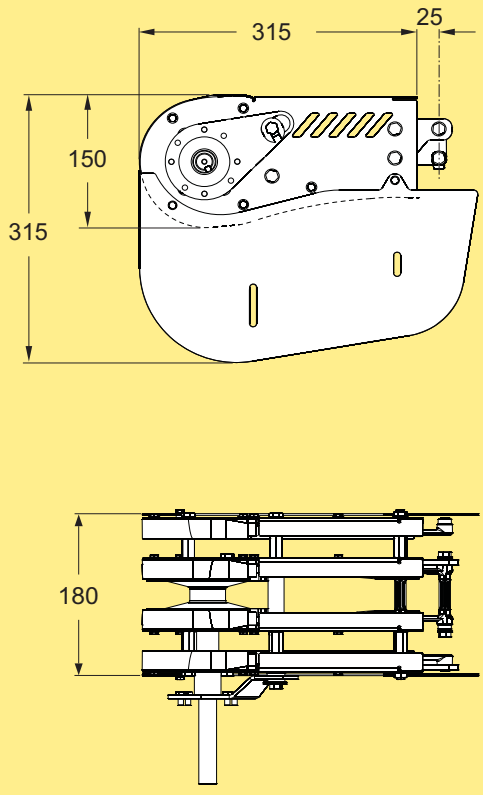
End drive unit, direct drive, no slip clutch



End drive unit
Direct drive. No slip clutch.
Maximum traction force: up to 1250 N.
Maximum speed 80 m/min for X180X.

Motor on left side:

Fixed/variable speed *	**XBEBX A180**
Without motor	**XBEBX0A180HNLP**

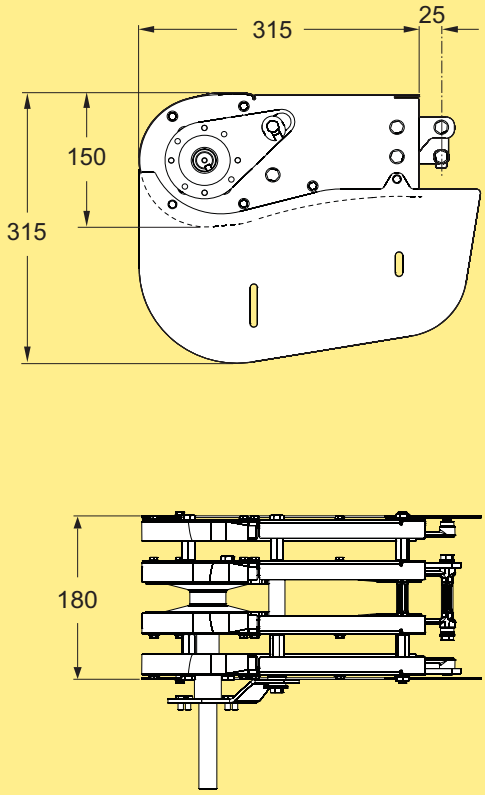
Motor on right side (not shown):

Fixed/variable speed *	**XBEBX A180**
Without motor	**XBEBX0A180HNRP**

** Use online configurator when ordering.*

Effective track length: 0,70 m

End drive unit, direct drive, no slip clutch



End drive unit
Direct drive. No slip clutch.
Maximum traction force: up to 1250 N.
Maximum speed 80 m/min for X180X.

Motor on left side:

Fixed/variable speed *	**XBEBX A180C**
Without motor	**XBEBX0A180HNLPC**

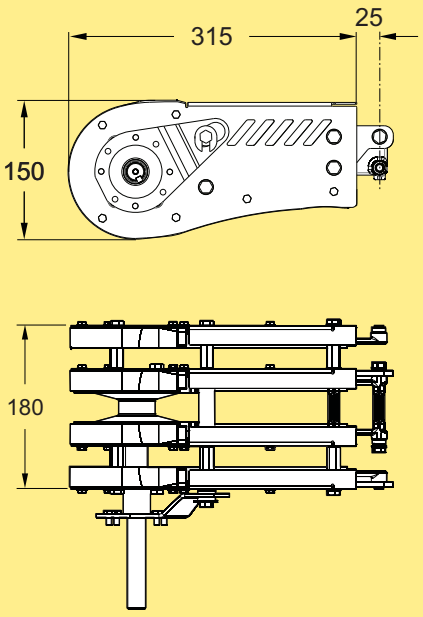
Motor on right side (not shown):

Fixed/variable speed *	**XBEBX A180C**
Without motor	**XBEBX0A180HNRPC**

** Use online configurator when ordering.*

Effective track length: 0,70 m

End drive unit, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
Maximum traction force: up to 1250 N.
Maximum speed 80 m/min for X180X.

Motor on left side:

Fixed/variable speed *	**XBEBX A180**
Without motor	**XBEBX0A180HNLGP**

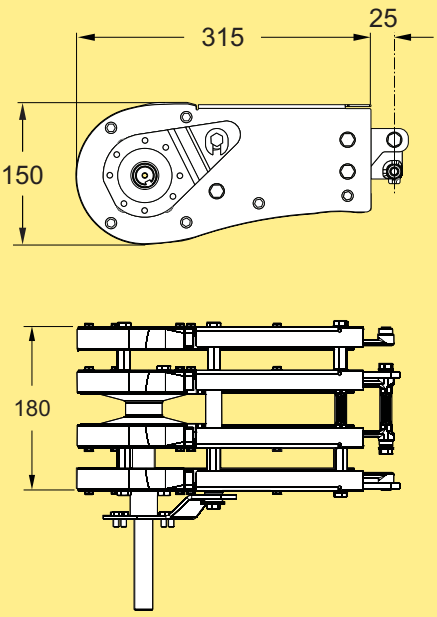
Motor on right side (not shown):

Fixed/variable speed *	**XBEBX A180**
Without motor	**XBEBX0A180HNRGP**

** Use online configurator when ordering.*

Effective track length: 0,70 m

End drive unit, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
Maximum traction force: up to 1250 N.
Maximum speed 80 m/min for X180X.

Motor on left side:

Fixed/variable speed *	**XBEBX A180C**
Without motor	**XBEBX0A180HNLGPC**

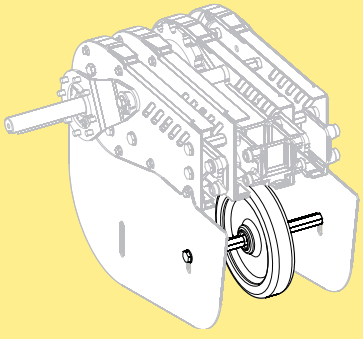
Motor on right side (not shown):

Fixed/variable speed *	**XBEBX A180C**
Without motor	**XBEBX0A180HNRGPC**

** Use online configurator when ordering.*

Effective track length: 0,70 m

Guide wheel kit 180



Guide wheel for drive units **5114932**

Including wheel, shaft and mounting hardware.
Note. Can only be used with plain chain. For use in high speed operation (60 m/min and above).

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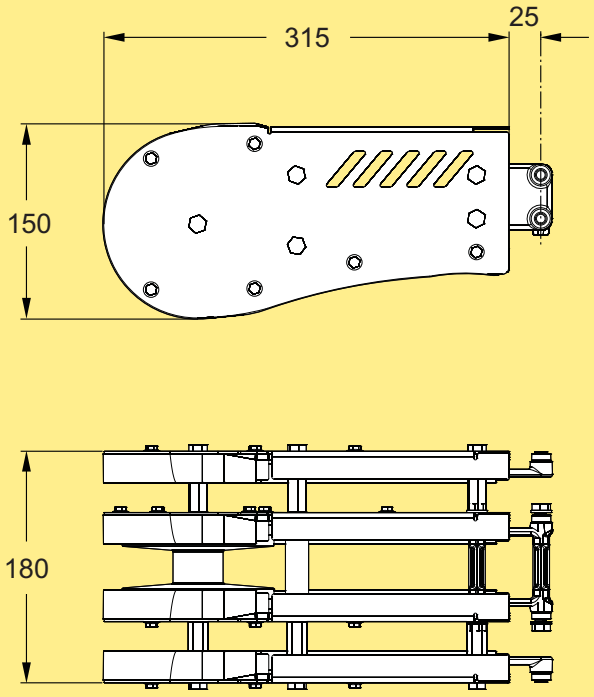
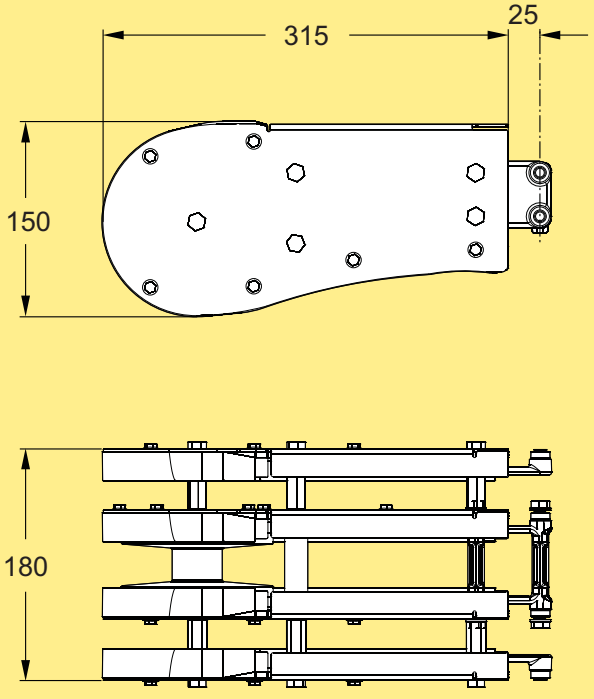
Idler end unit



Idler end unit, X180X **XBEJX A180**

Effective track length: 0,70 m.

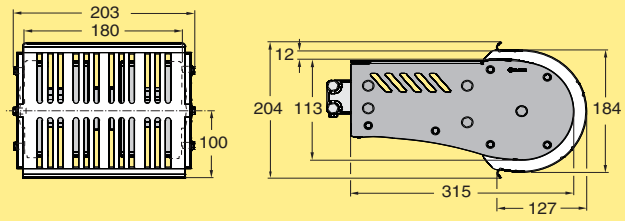
Idler end unit



Idler end unit, X180X **XBEJX A180C**

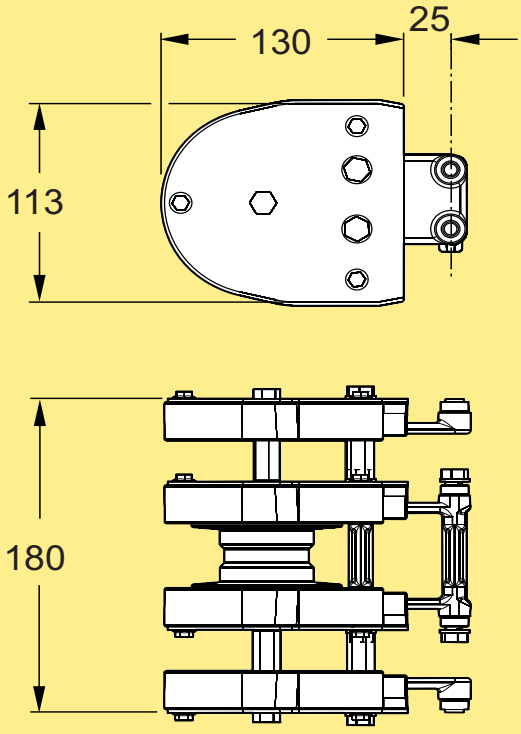
Effective track length: 0,70 m.

Protective cover for Idler end



Protective cover for Idler end unit XBEJX A180 **XBSJX A180**

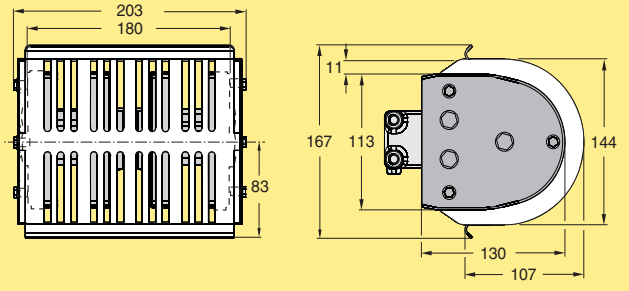
Idler end unit, Compact



Idler end unit, compact X180X **XBEJX A180 S**

Effective track length: 0,35 m.

Protective cover for Idler end, Compact

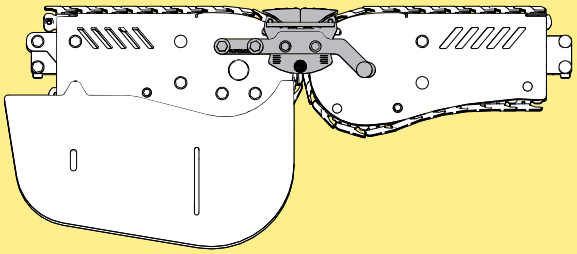


Protective cover for Idler end unit XBEJX A180 S **XBSJX A180 S**

Note!

Always use pinch point protective cover for idler ends to protect persons from clamp risk.

Passive bridge from conveyor to conveyor

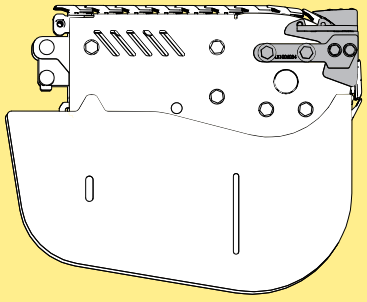


Passive bridge* **XBNGX A180**

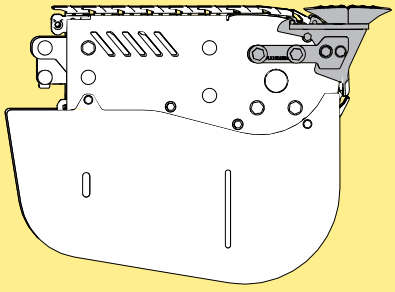
From:	*To:*
Heavy Drive unit	Heavy Idler
Heavy Drive unit	Compact Idler

** Use online configurator when ordering.*

Passive bridge, connecting drive/idler to machine or external application



1



2

Passive bridge*
Single roller (1) or Double roller (2) **XBNGX A180**

From:	*To:*
Heavy Drive	External
External	Heavy Idler
External	Compact Idler

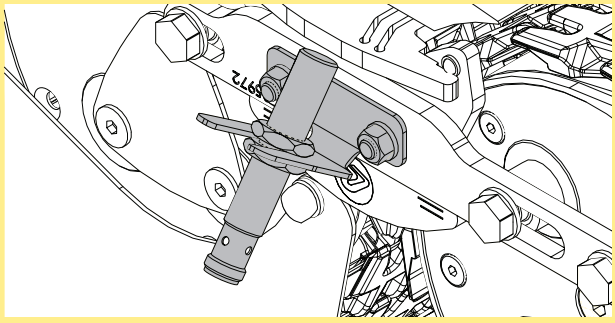
** Use online configurator when ordering.*

Attachment wire

Wire for attaching roller to holder **FLX1006041**

**Also available as a configuration option through XBNGX A180.*

Sensor Kit



Bridge in position sensor kit

On bridge	**FLX1006042**
On beam	**FLX1006044**

**Also available as a configuration option through XBNGX A180.*

**Note*
Bridges can not be used with cleated chain.

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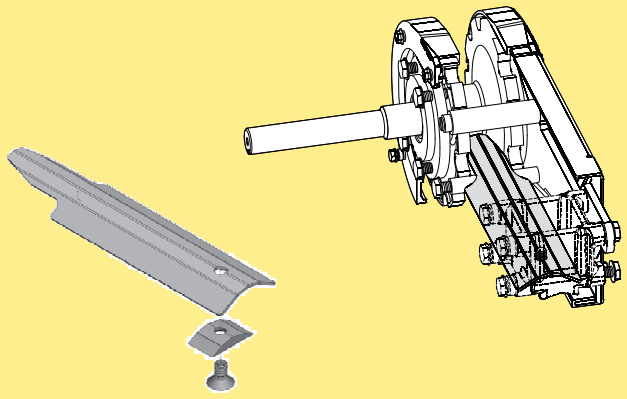
Drip catcher

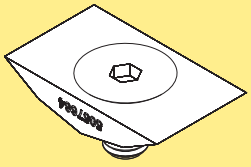
Drip catcher kit



Drip catcher kit **5114763**

For drive units and idler ends, to be used together with conveyor beams type Y with protected return beams including 5114562 Screw kit.

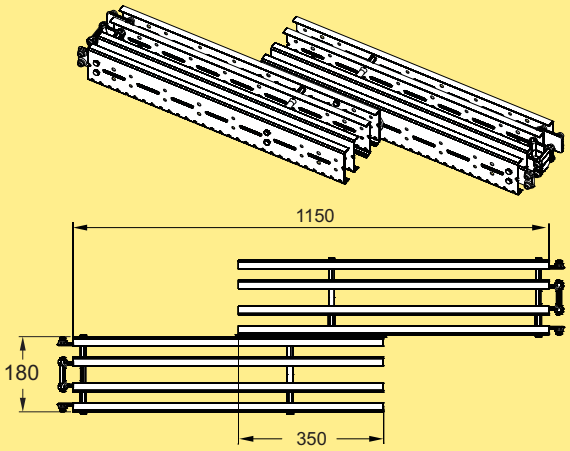
Screw kit



Screw kit **5114562**

For return beam, type Y, 85 mm, or Drip catcher kit.

Side transfer, left

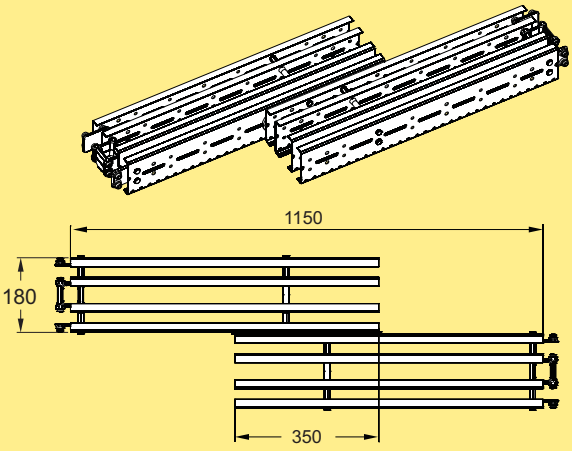


Side transfer

For optional mounting of Idler end unit or Drive unit at the end (A) or (B) **XBCPX 180 L**

Effective track length: 3 m

Side transfer, right

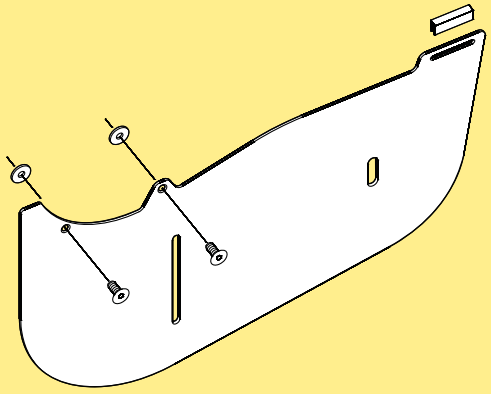


Side transfer

For optional mounting of Idler end unit or Drive unit at the end (A) or (B) **XBCPX 180 R**

Effective track length: 3 m

Slack protection kit



Slack protection kit **5115027**

Recommended use when Side transfer is installed with End drive unit H, direct drive, no slip clutch.

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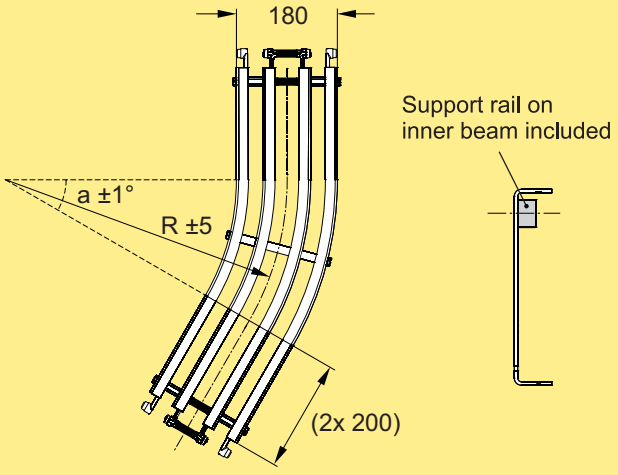
Plain bends

Item no	Angle (a)	Radius (R)	Effective track length	Slide rails (m)
XBBPX 30A180R5	30°	500 mm	0,70 m (1,40 m 2-way)	5,30 m
XBBPX 30A180R7	30°	700 mm	0,80 m (1,60 m 2-way)	6,10 m
XBBPX 30A180R10	30°	1000 mm	0,92 m (1,85 m 2-way)	7,4 m
XBBPX 45A180R5	45°	500 mm	0,80 m (1,60 m 2-way)	6,30 m
XBBPX 45A180R7	45°	700 mm	0,95 m (1,90 m 2-way)	7,50 m
XBBPX 45A180R10	45°	1000 mm	1,12 m (2,40 m 2-way)	9,5 m
XBBPX 90A180R5	90°	500 mm	1,20 m (2,40 m 2-way)	9,00 m
XBBPX 90A180R7	90°	700 mm	1,50 m (3,0 m 2-way)	11,20 m
XBBPX 90A180R10	90°	1000 mm	2,0 m (4,0 m 2-way)	15,8 m

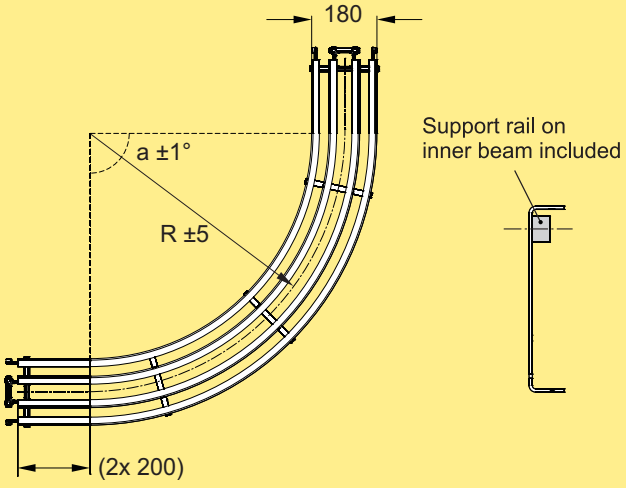
Plain bend, 30°



Plain bend, 30° X180X

R=500 mm	**XBBPX 30A180R5**
R=700 mm	**XBBPX 30A180R7**
R=1000 mm	**XBBPX 30A180R10**

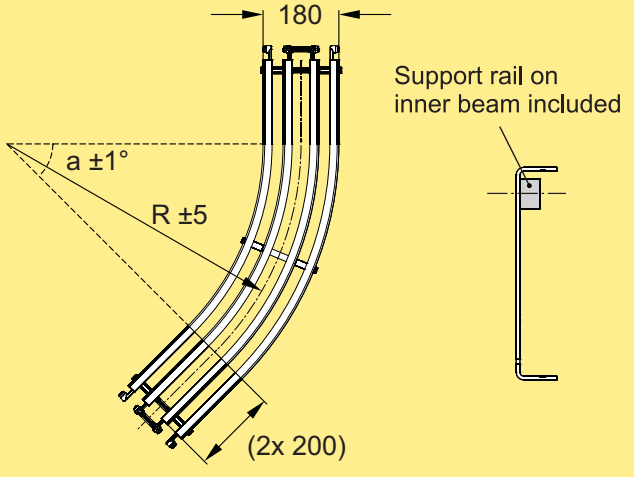
Plain bend, 90°



Plain bend, 90° X180X

R=500 mm	**XBBPX 90A180R5**
R=700 mm	**XBBPX 90A180R7**
R=1000 mm	**XBBPX 90A180R10**

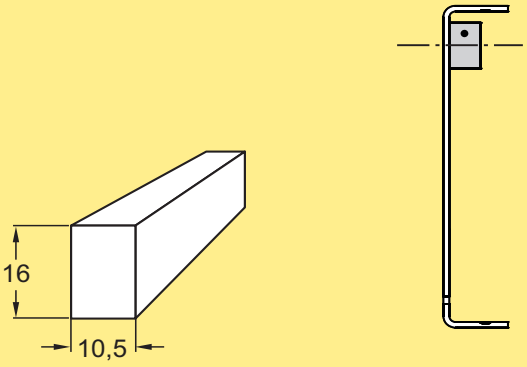
Plain bend, 45°



Plain bend, 45° X180X

R=500 mm	**XBBPX 45A180R5**
R=700 mm	**XBBPX 45A180R7**
R=1000 mm	**XBBPX 45A180R10**

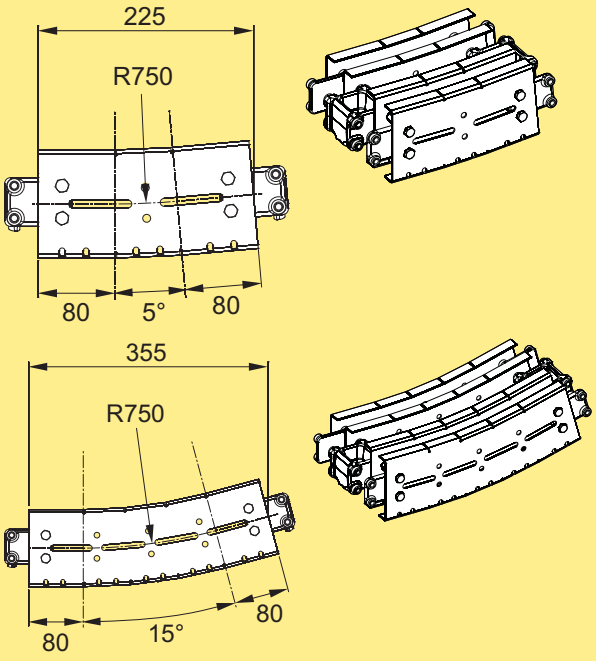
Support rail for plain bends (spare part)



Support rail for plain bends,
Length 2,4 m **5048598**

Fix with sheet metal screw ISO 7049 4,2×9,5 or similar.

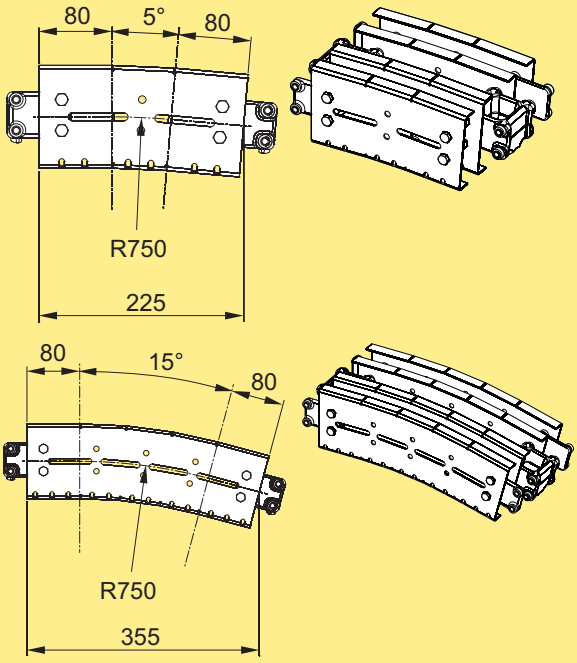
Vertical bend, positive angle



Vertical bend, pos., 5° **XBBVX 5A180R7P**
Vertical bend, pos., 15° **XBBVX 15A180R7P**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

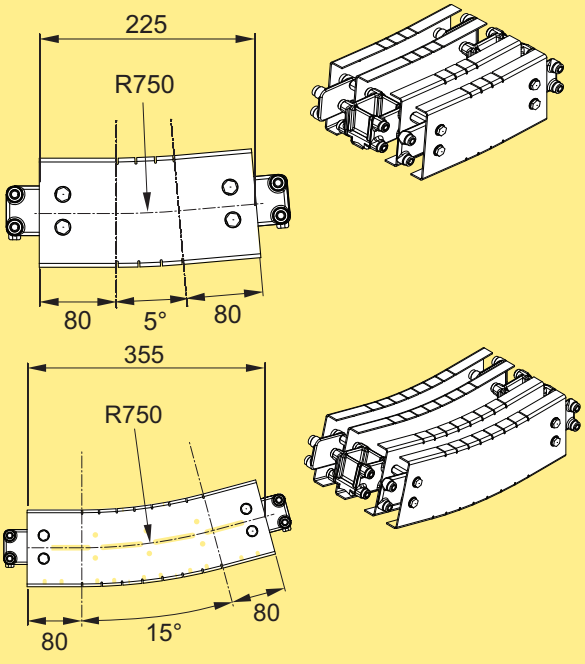
Vertical bend, negative angle



Vertical bend, neg., 5° **XBBVX 5A180R7N**
Vertical bend, neg.,15° **XBBVX 15A180R7N**

Effective track length (top + bottom): 5°: 0,5 m, 15°: 0,75 m

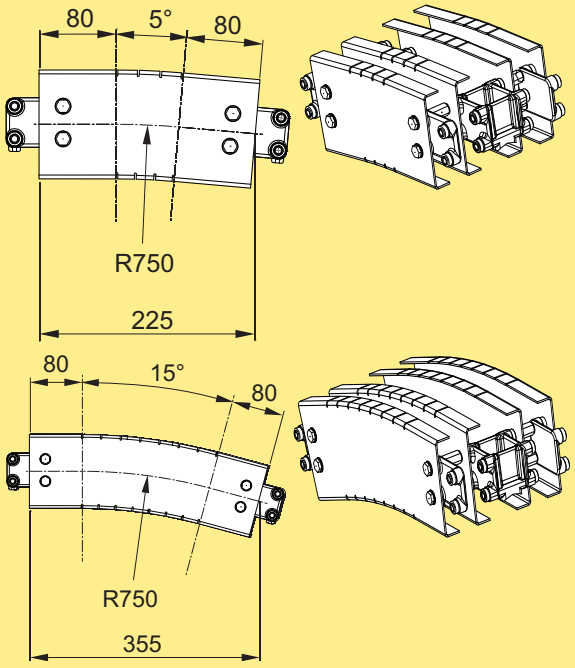
Vertical bend, positive angle



Vertical bend, pos., 5° **XBBVX 5A180R7PC**
Vertical bend, pos., 15° **XBBVX 15A180R7PC**

Effective track length (top + bottom): 5°: 0,50 m, 15°: 0,75 m

Vertical bend, negative angle



Vertical bend, neg., 5° **XBBVX 5A180R7NC**
Vertical bend, neg.,15° **XBBVX 15A180R7NC**

Effective track length (top + bottom): 5°: 0,5 m, 15°: 0,75 m

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